

Date: February 16, 1995



Environmental Restoration Program Division

NOTICE OF CORRECTION TO MAILING

TO: Administrarive Record Copy No. 665

FROM: ERPD/ED Document Control Center

Notify Environmental Restoration
Document Control Center, Bldg. 080
of any **changes** to the above.

Manuals/Documents: 5-21000-OPS-FO.18,R1 95-DMR-000100

Date Mailed: February 15, 1995

Page 14 of 15 sent with 95-DMR-000100 contained a typographical error. We have enclosed replacement pages "14 of 15" and "15 of 15" to section FO.18. Please discard page "14 of 15" sent with DMR. Also discard page "15 of 15" of this procedure.

DOCUMENT CLASSIFICATION
REVIEW WAIVER PER
CLASSIFICATION OFFICE

ADMIN RECORD

A-SW-001275

ENVIRONMENTAL SAMPLE RADIOACTIVITY CONTENT SCREENING

EG&G ROCKY FLATS PLANT
EMD MANUAL OPERATION SOP

Manual:
Procedure No.:
Page:
Effective Date:
Organization:

5-21000-OPS
FO.18, Rev. 1
14 of 15
03/01/92
Environmental Management

Category 2

Example II.

Sample #TR00001IT

Matrix: Soil

Sample Size: 500 grams

Specific activity alpha (SA) = $7.78\text{E-}5$ uCi/g

Specific activity beta (SB) = $1.12\text{E-}4$ uCi/g

Screening Classification:

Gross alpha activity (uCi) = SA (uCi/g) x Sample Size (g)

Gross alpha = $7.78\text{E-}5$ uCi/g x 500 grams

Gross alpha = $3.89\text{E-}2$ uCi

Gross beta activity (uCi) = SB (uCi/g) x Sample Size (g)

Gross beta = $1.12\text{E-}4$ uCi/g x 500 grams

Gross beta = $5.6\text{E-}2$ uCi

Total Specific Activity - SA + SB

Total specific activity = $7.78\text{E-}5$ uCi/g + $1.12\text{E-}4$ uCi/g

Total specific activity = $1.90\text{E-}4$ uCi/g

GROSS ALPHA > 0.01 uCi BUT < 0.1 uCi (0.0389 uCi)

Gross beta < 0.1 uCi

Total Specific Activity < 0.002 uCi/g therefore CATEGORY II SAMPLE

DOT SHIPPING CLASSIFICATION:

Specific Activity < 0.002 uCi/g therefore DOT NON-RADIOACTIVE

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Page:
Effective Date:
Organization:

5-21000-OPS
FO.18, Rev. 1
15 of 15
02/16/95
Environmental Management

Category 2

Samples classified as $<0.002 \mu\text{Ci}$ (Category I) are considered exempt from licensing requirements and may be transferred to non-licensed laboratories. These samples are of sufficiently low activity to require no special handling procedures.

Samples classified as $>0.002 \mu\text{Ci}$ (Category II) shall be sent to licensed facilities. Both Category I and Category II samples may be non-radioactive and are exempt from DOT.

Extracts of samples shall be given the classification of the original sample. The laboratory radiation safety officer may elect to reclassify the extract based on additional measurements or on knowledge of the extraction procedure.

Samples shall not be released for analysis until properly classified.

8.0 DOCUMENTATION

The signature on Form FO.18A, Sample Screening Release Form and on Form FO18B, Radioactive Analysis Report, or signature on equivalent forms, verifies and authenticates the completion of this procedure and the accuracy of the data/information recorded.